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TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES & SERVICE CENTERS
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODEL AFFECTED: MA-337

SUBJECT: CORRECTION AND CLARIFICATION OF SECTION 1-1 IN THE MA-337 MANUAL

The attached supplement is to clarify the scanning operation and considerations of the option.

Section 1-1 of the Service Manual (P/N 0300-4228-400) should be disregarded and supplemented by the attached System and Decoder Descriptions.

TECHNICAL SERVICE DEPARTMENT
REGENCY COMMUNICATIONS, INC.

1-1 DESCRIPTION

The MA-337 is a 2805 Hz Tone Decoder used in RCC systems. The decoder is equipped with the following:

a. On-board 8V regulator
b. Audible decode alarm (600 Hz tone)
c. Horn relay driver
d. Scanner for MCB series, XLH257 and XLU1515 transceivers
e. Message lamp driver (sink and source)
f. K8-K9 or K7 squelch control
g. Variable code length

The MA-338 is a 2805 Hz Tone Decoder for use in the handheld radios used in RCC systems. This decoder is equipped with the following:

a. On-board 5V regulator
b. K7 squelch control
c. Variable code length

Both decoders count the number of 2805 tone interruptions advancing a counter for each correct digit. The decoder will decode variable code lengths from 1 digit codes up to 7 digit codes depending on how the diode array, consisting of CR1221, CR1222, and CR1223, is cut. Once the code length is selected, all decoders in the system must use the same code length.

When using the scanner, the microphone must be on-hook and the squelch control adjusted to squelch the radio to allow the radio to scan. Going off-hook will stop the scanner. The radio will scan erratically if the microphone is on-hook and the radio's squelch is not adjusted properly. When a carrier is sensed (in scan mode) and a 2805 Hz is present, the radio will stop scanning to allow the decoder to "listen" and decode the code sequence. Certain system considerations must be taken into account when using the scanner. The scanner allows about 200 milliseconds for the radio to interrogate the channel for a 2805 Hz tone. Therefore, if a radio is to scan eight channels the 2805 Hz tone must be held up for 8 x 200ms or 1.6 seconds before the identification code can start (16 channel radios need 3.2 seconds).*

*If the system incorporates the use of the MA-314 2805 Touch Pad Encoder, which holds the 2805 Hz tone up for only .8 seconds, a method of holding up the 2805 Hz tone is needed to ensure that all units lock-up on the signal. A switch connecting pins 2 and 8 of the MC14572 IC will hold the 2805 Hz tone on. Be sure to open the switch, though, after the encoding is complete.